President’s Message by Janiele Maffei

Joe Maffei’s presentation on the Challenges of Seismic Evaluation and Retrofit at the February monthly meeting was exceptional. The presentation highlighted the fact that we practice in a rare and privileged environment where our members readily share their experience and technical expertise. I really enjoyed the moments during the presentation when Joe called out other SEAONC members that readily share their understanding of various code and policy issues with him when he calls them with questions.

If you enjoy these types of opportunities you are going to want to join us for the March 3 and April 13th SEAONC monthly meetings (Note the Monday date in April). The March meeting topic is “The Coming Shift Toward Resilience and Recovery-Based Design” with the panel of David Bonowitz, Jon Heintz, Ryan Kersting and moderator Jonathan Buckalew.

In April Ron Hamburger will present on the proposed mitigation for the Millennium Tower. We were lucky to get the PG&E auditorium for the April presentation (with help from a dedicated SEAONC member) so pass the word. I also look forward to seeing many of you at the National Earthquake Conference the first week of March. See you all soon.
UPCOMING EVENTS

2020 Spring Seminar: 2019 Building Code Updates
- Wednesdays, March 11 & 18, 2020
- Registration & Dinner: 5:15 pm // Program 6:00 pm
- PG&E Auditorium, San Francisco

April Monthly Meeting - Proposed Mitigation of the Millennium Tower
- Monday, April 13, 2020
- Registration & Dinner: 5:00 pm // Program 6:00 pm - 7:00 pm
- PG&E Auditorium, San Francisco
- Broadcasted remotely to Simpson Strong-Tie in Pleasanton, Peoples Associates in San Jose, and ZFA Structural Engineers in Santa Rosa. Details to be announced soon.

March Monthly Meeting:
The Coming Shift Toward Resilience and Recovery-Based Design

Date: Tuesday, March 3, 2020
Registration: 5:00 pm
Program: 6:00 pm - 7:00 pm
Location: SOM
One Maritime Plaza
San Francisco, California 94111
Click here to register

New thinking about earthquake design is giving more attention to recovery time and its relationship to community resilience. This panel presentation will cover recent and ongoing activities related to these developing concepts. The speakers, all of whom are SEAOC members active in this field, will present a high-level overview of synergistic local, state, and national efforts to define concepts, design policies, and develop technical criteria that will ultimately affect the way structural engineers design and retrofit buildings. The interactive presentation will feature an extended question and answer period.

Speakers Biographies:

David Bonowitz, DBSE, is a Fellow Member of SEAONC and SEAOC, past chair of the SEAONC Existing Buildings committee, and past chair of the NCSEA Existing Buildings and Resilience committees. Bonowitz is an appointed member of the FEMA-NIST working group on Functional Recovery of the Built Environment and Critical Infrastructure. He is a co-author of “Functional Recovery: A Conceptual Framework,” an EERI white paper, and lead author of “Resilience-based Design and the NEHRP Provisions” for the NEHRP Provisions Update Committee.

Jonathan Buckalew, Nabih Youssef Associates, is a project engineer and has worked 8 years at Nabih Youssef Structural Engineers. He received his BS and M.Eng from UC Berkeley. Jon is an active member of SEAOC Existing Building Committee, Chair of the SEAONC Resilience Committee, and Co-Chair of the SEAOC Resilience Committee.

Jon Heintz, is an Executive Director of the Applied Technology Council in Redwood City, California. He has more than 30 years of experience in earthquake engineering practice and research, natural hazard mitigation, seismic evaluation and retrofit, and strategic planning on structural engineering research needs at the national level. He is actively involved in the development of guidelines, codes, and standards for new and existing buildings, and is responsible for more than 100 ATC products and reports. He is currently serving as Project Manager and member of the FEMA-NIST committee of experts on Functional Recovery of the Built Environment and Critical Infrastructure.

Ryan Kersting is an Associate Principal at Buehler, with a diverse portfolio of experience in the industry spanning over 20 years. He serves as Buehler’s in-house technical expert on codes and standards, innovative systems and solutions, and emerging trends within the industry. Ryan is the chair of the FEMA-NIST “Committee of Experts” on Functional Recovery, is a member of the NEHRP/NIST Advisory Committee on Earthquake Hazards Reduction, is Co-Chair of the SEAOC Legislative Committee, serves on the Board of Directors of NCSEA, serves on the Board of Directors of ATC, and is a former SEAOC President.
SEAONC Spring Seminar 2020: 2019 California Building Code Updates
Night 1 & Night 2

Date: Wednesdays, March 11 & 18, 2020
Registration & Dinner: 5:15 pm - 6:00 pm
Program: 6:00 pm - 9:00 pm
Location: PG&E Auditorium
77 Beale Street
San Francisco, California  94105
Click here to register

Come learn about updates to the recently adopted 2019 California Building Code and stay current with your building code knowledge. The seminar will cover a broad variety of updates from loading to material specific provisions.

Night 1, March 11th:

• *Seismic Related Updates to ASCE 7-16: Rafael Sabelli, SE – Walter P Moore*

  The 2016 edition of ASCE 7 is now the standard used in the California Building Code, replacing the 2010 edition. The latest edition includes numerous changes related to seismic design, including changes to the seismic spectrum, diaphragm-design methods, and nonlinear response-history analysis. The presentation highlights the new material and changes in the standard.

• *Changes to AISC 341 Seismic Provisions for Structural Steel Buildings: Jim Malley, SE - Degenkolb*

  This presentation will discuss the major new features of the 2016 AISC Seismic Provisions (AISC 341-16), which is included by reference in ASCE 7-16 and therefore the 2018 IBC structural provisions, hopefully assisting in making the transition to this new standard. The latest edition of AISC 341, dated 2016, has been available since 2017. The document has significant technical modifications including new material specifications, use of steel braced diaphragms, new column splice details, requirements for SCBF gusset plate welds, and application of demands on columns that participate in intersecting frames. In addition, discussion of significant new provisions related to the seismic design of multi-tier braced frames will be provided. A new composite shear wall system has also been developed. Some high-level discussion of changes to AISC 360 “Specification for Structural Steel Buildings” will also be presented, as will any California specific changes that are included in the 2019 California Building Code.

• *2019 CBC Changes to Cold Formed Steel Design: Jeff Ellis, SE – Simpson Strong-Tie*

  Changes to the 2019 CBC for cold-formed steel design include a reorganization of the AISI specification and consolidation of most of the AISI framing standards into two standards. These changes are to improve understanding, use, and development as well as for better harmony between the AISI and AISC provisions. Additionally, there are some significant technical changes for the design of cold-formed steel. This presentation will discuss the reorganization and technical changes so the attendees may update their CFS design and detailing practices accordingly.

Night 2: March 18th:

• *Geotechnical Updates relating to Structures in ASCE 7-16: Debra Murphy, PE & Darcie Maffioli, PE/GE – Slate Geotechnical*

  Each new code cycle introduces updated approaches to performing geotechnical and ground motion analysis. The recent adoption of the 2019 CBC comes with notable changes in the assessment of foundations, particularly for sites subject to liquefaction and the derivation of code derived and site-specific response spectra. We will present to you an overview of these changes and a synopsis of what to expect from CBC 2019 compliant geotechnical recommendations.
UPCOMING EVENTS

• 2019 CBC DSA Amendments – Structural Safety: Bryan Frank, SE - DSA

The Division of the State Architect (DSA) is the jurisdictional authority in the state of California for the approval of plans and supervision of construction at public K-12 schools, community colleges, and state-owned essential service facilities. Consistent with this authority, each version of the California Building Code (CBC) includes amendments authored by DSA specific to these categories of buildings and/or structures. This talk will provide a basic overview of the organization of DSA amendments within the CBC, highlight various amendments of interest, and focus on changes in the 2019 CBC amendments relative to those in the previous version of the CBC (2016). Content will be limited to DSA amendments relevant to Structural Safety provisions, as amendments specific to Accessibility and Fire/Life Safety provisions are outside the scope of this talk.

• 2019 CBC Updates to Wood Framed Construction: Kelly Cobeen, SE - Wiss, Janney, Elstner Associates

The wood design provisions of the 2019 California Building Code (CBC) incorporate the new 2018 edition of the National Design Specification for Wood Construction (NDS), while retaining the 2015 edition of the Special Design Provisions for Wind and Seismic (SDPWS). This presentation will provide an overview of significant changes in the 2019 CBC and 2018 NDS that are of interest to designers of wood-frame structures. The presentation will conclude with a brief overview of future directions for wind and seismic design based on the nearly complete 2021 Edition of the SDPWS.

Speaker Biographies:

Rafael Sabelli, S.E., is a Principal and Director of Seismic Design at Walter P Moore. Rafael has earned a Special Achievement Award from AISC, as well as the T.R. Higgins Lectureship award. He is active in the development of seismic design standards for steel systems and is vice-chair of the AISC Seismic Provisions Committee. He is a member of the ASCE 7 Seismic Task Committee and the NIST Building Seismic Safety Council’s Provisions Update Committee. Rafael is the chair of the AISC Structural/Seismic Design Manual committee and was the Project Manager for the SEAOC Seismic Design Manual. Rafael is co-author of Ductile Design of Steel Structures and has written extensively on the design and behavior of steel seismic systems. His paper on efficient design for stability, “The Indirect Analysis Method,” is coming out in the next (2020 Q2) issue of the AISC Engineering Journal. He is currently President of the Structural Engineers Association of California and would be speaking about steel if it were not for Jim Malley. Oh, well.

James O. Malley, S.E., is a Senior Principal with Degenkolb Engineers. He received both his Bachelors and Masters Degrees from the University of California at Berkeley. Mr. Malley has over 35 years of experience in the seismic design, evaluation and rehabilitation of building structures. He was responsible for the analytical and testing investigations performed as part of the SAC Steel Project in response to the Northridge earthquake damage. In 2000, AISC presented Mr. Malley its Special Achievement Award. Mr. Malley is Chair of the AISC Specifications Committee and the Past-Chair of the AISC Seismic Subcommittee. He was named the 2010 T.R. Higgins Lectureship Award winner for his work on the AISC Seismic Provisions, and in 2012 was given presented with a Lifetime Achievement Award by AISC. Mr. Malley is also a member of the AWS Subcommittee on Seismic Welding Issues. Mr. Malley was also one of the authors of the PEER Tall Buildings Institute “Guidelines for the Performance-Based Seismic Design of Tall Buildings” and is involved in the peer review of numerous tall building projects in areas of high seismic risk. Jim has served as a member of the SEAONC and SEAOC Board of Directors, and was President of SEAONC in 2000-2001 and SEAOC in 2003-2004. He was named a SEAOC Fellow in 2007 and an Honorary Member of SEAONC in 2014. He also was a member of the Board of Directors of NCSEA, serving as President in 2010-2011. Mr. Malley also served as a member of the Board of Directors of EERI and is currently President of the Applied Technology Council.

Jeff Ellis, S.E., is the Director of Codes and Compliance for Simpson Strong-Tie Company Inc. He manages the company codes, product compliance, and technical group efforts and also participates in research and development. He was a practicing design engineer for commercial, residential and forensic projects for more than nine years prior to joining Simpson Strong-Tie in 2000. He currently serves on the ICC Compliance Code Action Committee and ICC-ES Board of Managers and has served as SEAOSC President, SEAOC Secretary, CALBO Structural Safety Committee member, AISI Committee on Framing Standards (COFS) Lateral Design Subcommittee Chairman, and Cold-Formed Steel Engineers Institute (CFSEI) President.
UPCOMING EVENTS

Debra Murphy, P.E., is a licensed professional engineer based out of Oakland, California, and a recent co-founder of Slate Geotechnical Consultants. Her work focuses on geotechnical and earthquake engineering projects for sites throughout the United States and abroad for new and existing buildings, dams and offshore structures. Recently, she has worked closely with leaders in the seismic hazard field to implement advances in modeling which is complemented by her role as the chair of the Ground Motions Subcommittee for the Structural Engineers Association of Northern California. Debra is a member of the 2017 class of EERI Housner Fellows and member of the Board of Directors for Earthquake Engineering Research Institute Northern California Chapter.

Darcie Maffioli, G.E., is a licensed geotechnical engineer in Oakland, California and specializes in geotechnical engineering for new and existing buildings on sites with challenging subsurface conditions that include liquefaction, consolidation settlement, expansion potential, shallow groundwater, and highly variable stratigraphy.

Bryan Frank, S.E., is a graduate of Cal Poly San Luis Obispo and UC Berkeley. He is a licensed structural engineer who worked in private practice for nearly 20 years with Bay Area firms, including DASSE Design, his longest tenure, and most recently Walter P Moore. Bryan joined the Division of the State Architect (DSA) in 2017, serving as a plan review engineer in the Oakland regional office. In recent months he has transitioned into a role with the Codes and Standards Unit of the DSA headquarters office. Bryan has three daughters, all of whom attend public schools. Among other family activities, he currently enjoys finding new bike paths, coaching youth basketball, and Roald Dahl books.

Kelly Cobeen S.E., is an Associate Principal with Wiss Janney Elstner Associates in their San Francisco office, and is a registered Civil and Structural Engineer with more than 30 years of experience. Her work includes a wide range of project types, sizes and construction materials, with a special interest in seismic resistance of light-frame construction. She has been involved in numerous code development, research and educational activities, including updates to the NEHRP Recommended Provisions for Seismic Regulations for New Buildings, the ASCE 7 seismic provisions, numerous Applied Technology Council publications, and International Building Code and International Residential Code development. Kelly is coauthor of the Design of Wood Structures textbook, and is a past president and fellow member of SEAONC and SEAOC.

ATC NEWS

The Applied Technology Council (ATC) is preparing to respond to Request for Proposal (RFP #2020-001) for Seismic Safety Engineering and Consulting Services for the City of San Francisco Office of Resilience and Capital Planning (ORCP)/ Earthquake Safety Implementation Program (ESIP) and soliciting expressions of interest from small and micro Local Business Enterprises (LBE) certified with San Francisco Contract Monitoring Division (CMD) for structural engineering services. Please contact atc@atcouncil.org for a copy of the RFP that describes the scope of work and for submitting your expression of interest describing your capabilities referenced in the RFP.
Every year the Structural Engineers Association of Northern California (SEAONC) recognizes members and their firms for demonstrated outstanding achievements and excellence in structural engineering practice and project work. We are proud to announce our call for entries for the 2020 SEAONC Excellence in Engineering awards. Similar to years past, the award categories are Study/Research/Guidelines, Special-Use Structures, Infrastructure, Historic Preservation, Retrofit/Alteration, and New Construction. The SEAONC and SEAOC awards are integrated, and the winners of SEAONC awards will automatically be elevated to the state level. The 2020 SEAONC Awards will be recognized as a part of the Tuesday, May 5th, 2020 SEAONC awards ceremony at the Sir Francis Drake Hotel. If you have any questions on the Excellence in Engineering Awards, please contact the SEAONC office at (415) 974-5147 or contact us at office@seaonc.org

Complete entries need to be received by COB Tuesday, March 17 to be considered.

**CLICK HERE to download the entry packet**

**COMMITTEE NEWS**

**SE3 Committee News**

**A/E/C ROUNDTABLE: Inclusive Practices in Recruiting and Management**

February 25, 2020

The SEAONC SE3 Diversity and Inclusion Subcommittee held a roundtable discussion at AIA San Francisco on February 25, 2020. An interdisciplinary group of professionals from across the AEC industry were invited to participate as panelists in this moderated panel.

The panelists included Lori Burbidge, Associate Principal and Business Manager at Buehler, Denny Kwan, Principal and Residential Studio Lead at Holmes Structures, Kelli Quinn, Project Executive at Rudolph & Sletten (R&S), and Gabrielle Bullock, Director of Global Diversity at Perkins & Will. The discussion was moderated by Saskia Dennis-Van Dijl, Principal Consultant at Cameron MacAllister Group. Each of the panelists have experience incorporating EDI strategies in the recruitment and management practices at their respective firms.

There were two focus topics for the roundtable, both associated with dedicated efforts to improve equity, diversity, and inclusivity in the workplace: (i) recruiting/hiring, and (ii) management practices. Overall the event was a great success. It was a full house, attended by at least 80 building design professionals, human resource managers, business owners, external consultants, recruiters and professionals who work in development or construction.

Prompted by Saskia’s variety of thoughtful questions, the panelists shared a wide range of anecdotes and insights from their personal and professional experiences. Strategies employed to diversify the pool of job applicants were discussed extensively by each of the panelists. They discussed ways to mitigate bias in the hiring and interview processes and how to effectively assess the success of an EDI program or initiative.

The second half of the discussion was focused on management strategies to foster inclusivity in the workplace culture. The panelists discussed some details associated with management and communication training, tools, resources, or programs that have been established in their firms to facilitate the growth, development and well-being
of each individual in the firm, and to help establish a culture of transparency.

The night ended with a lively networking happy hour. Attendees socialized, enjoyed refreshments, and reflected with their peers on the many important themes that had come up throughout the evening.

The discussion stressed that change can be sparked by individuals of all ages and levels and experience. Inclusivity starts by creating a culture of respect and civility, where people are trained, coached, and encouraged to work with those who look, think, and behave differently from them. For the full event recap, visit the SE3 Website.

“Diversity Is Being Invited to the Party; Inclusion Is Being Asked to Dance.” - Vernã Myers

SE3 Long-Term Mentorship Program - Save the Date!
SE3’s mentorship program aims to facilitate further access to this career-boosting practice. The long-term mentorship program that launched in 2019 will conclude its first year this month, and the committee will facilitate a second year of programming, with a slightly new format. For 2020, the mentorship groups will be broader to include professionals with a range of experience: each group will include one seasoned professional, one or two mid-level engineers, and one or two entry-level engineers. We encourage all mentors and mentees to continue in the program, and will also be actively recruiting new participants of all experience levels. Our launch event is being planned for April 21st, so save the date! Stay tuned for announcements regarding participation in the 2020 long-term mentorship program.

SE3 2020 PROGRAMMING

Whether or not you have been a member of our committee in past years, we would be delighted to have your contributions in any of our sub-committees and programs. If you are interested in joining the SEAONC SE3 committee, please email us at se3@seaonc.org. New members are always welcome! In addition to mentorship and D&I related efforts, SE3 is working on several other projects. Learn more on the SE3 Task Group website.

NCSEA SE3 National Survey

NCSEA SE3 is starting to work on the 2020 survey and needs volunteers! The survey focuses on career satisfaction, engagement and retention, compensation, and work-life balance within the structural engineering community. Please send an email to se3@ncsea.com if you are interested in helping out. In an effort to focus this survey on fewer topics, the committee is issuing this open call for feedback and for new survey question ideas, which you can access here: https://tinyurl.com/vrxc8u

From the SEAONC History Vaults

Darrick B. Hom, Hensolt SEAONC Legacy Committee Chair

Did you know that the Transmerica Pyramid was the eighth tallest building in the world when it was constructed? The signature building of the San Francisco skyline was designed by Walter Hensolt and despite its exterior look, it is a steel moment frame structure. The building was just surpassed in height in San Francisco by the new Salesforce tower. You can learn more about the Transmerica Pyramid as well as other history of structural engineering in Northern California at the Hensolt SEAONC Legacy Project. The project can be viewed at legacy.seaonc.org and if you wish to contribute to the project, click here.

Of course, the Hensolt SEAONC Legacy committee is always looking for more ideas, energy and participation from the SEAONC membership. This committee provides the unique perspective on the history of structural engineering in Northern California and it is an opportunity to learn and understand how our profession has evolved. Therefore, if you are interested in participating in this ongoing endeavor, please contact the SEAONC office at 415-974-5147 or office@seaonc.org.
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Contact the SEAONC office:
(415) 974-5147
office@seaonc.org

SEAO NC REFERRAL LIST

Join the SEAO NC Referral List!

Dear SEAO NC Community,

We would like to take this opportunity to thank you for your support over the past few years. We value all contributions to SEAO NC, and your involvement is extremely important to us and to the community at large.

SEAO NC’s referral list serves to assist individuals seeking to find structural and civil engineers that specialize in specific areas of structural engineering. The referral list is a valuable tool to the community and we often get calls and emails from the public looking for a structural engineer.

The cost to be added to the referral list is $100 and is valid for a period of 1 year.

Click here to fill out the application as part of the process to assure our data is accurate and up-to-date. Send completed application to office@seaonc.org.

To view the 2020 Referral List click here.
Thank you to our annual PLATINUM sponsor Computers & Structures, Inc!

REGISTER FOR THESE EVENTS

Tuesday, April 7

8:15–9:15 AM
Keynote: Reaching New Heights in the Structural Engineering Profession
Ashraf Habibullah
President & CEO, Computers and Structures, Inc.

If structural engineers have brought immeasurable value to humankind, why don’t they make more money? More importantly, what can we do about it? Ashraf will answer these questions and more in this fascinating keynote presentation.

6:30–11:00 PM
A CELEBRATION OF STRUCTURAL ENGINEERING
Marriott St. Louis Grand | 800 Washington Avenue

Hosted by Computers and Structures, Inc.

Enjoy a decadent dinner, hosted bar, and unforgettable live entertainment by the Ashraf All-Stars cover band.

Tickets Required. Proceeds benefit the SEL Futures Fund.
Coffman Engineers

**Job Position:** Structural Engineer (5-10 years experience)

**Job Description:** The right team is more than an advantage, it’s a game changer! Come work with a team of engineering professionals dedicated to excellence at Coffman Engineers’ Bay Area office.

Coffman Engineers is seeking a Structural Engineer with five to ten years of experience to assist in the design of commercial, institutional, and industrial structures for our Bay Area office located in Oakland, California. The successful candidate will be enthusiastic, have a desire to work and grow with a multi-discipline engineering team, and be willing to have fun.

**Why You Want To Work Here**

You could choose to work anywhere, so why work at Coffman Engineers? Because we are different – our culture sets us apart. Simply stated, we are a group of creative, high-performing people who like working together and believe that what we do makes a difference. Employees say that it feels like working with a group of friends in a small office while enjoying the benefits and perks of working for a large firm. Our culture isn’t the only thing that makes us different, but it drives everything we do.

Coffman offers comprehensive benefits, including a flexible PTO program and a fun office environment. Our Bay Area office is conveniently located near Lake Merritt and 20th Street, just three blocks from BART. Whether it is delivering the best possible service to our clients, or competing in an office-wide curling competition, we welcome the dedicated and the driven. Join us.

Don’t take our word for it. Check out what others are saying: [http://www.glassdoor.com/Reviews/Coffman-Engineers-Reviews-E409809.htm](http://www.glassdoor.com/Reviews/Coffman-Engineers-Reviews-E409809.htm)

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- Facebook: @CoffmanEngineers

**Job Requirements:**

- A four-year degree in civil engineering or a related field
- Master’s Degree in Structural Engineering (preferred)
- Registration as a P.E.
- Registration as a S.E. (preferred)
- 5 to 10 years of experience in the structural design of buildings or similar structures
- Ability to work independently, and supervise the efforts of a small team
- Ability to maintain a good working relationship with clients
- Experience with computer analysis software systems
- Excellent leadership, supervisory, and writing and verbal communication skills

This position is not eligible for sponsorship.

**How to Apply / Contact**

You must apply online for this position. If you are unable to complete our online application process, or if you need assistance to do so, let us know so we can provide a reasonable accommodation.

As part of the application process, you will be asked to create a user profile that allows you to manage the application process, answer a few questions, attach your resume and other documents, and then submit. We look forward to learning more about you! If you are accessing this from outside our website, go to [http://www.coffman.com/home/careers/openings/oakland-openings/](http://www.coffman.com/home/careers/openings/oakland-openings/) and open the appropriate position posting.

If you are experiencing problems applying through our system, please try again using a different browser or an updated
version of your current browser. If that doesn't work, please contact us directly.

This position is direct with Coffman Engineers; we are an Equal Opportunity and Affirmative Action Employer of Minorities/Females/Veterans/Disabled individuals.

**Degenkolb Engineers**

**Job Position:** Project Engineer

**Job Description:** We're currently seeking talented Project Engineers to join our team at Degenkolb. We’re hiring in both our Oakland and San Francisco offices.

Our firm is highly collaborative and filled with experts who are united by a commitment to professional development, industry involvement, taking pride in ownership, and respect for our personal lives. We listen to each other and value feedback from all perspectives, and we believe that these traits have helped to create a truly great place to grow our careers.

Careers at Degenkolb are ideal for engineers with a strong background in structural/seismic engineering, and people who thrive in an environment where they'll work on multiple interesting projects, while investing time in mentoring junior technical staff to continue our culture of excellence.

**Job Requirements:**
- Master’s Degree in Structural Engineering and 5 - 7+ years relevant experience.
- California Civil Engineering license (PE) required. Registration as a Structural Engineer in California (SE) is preferred.
- Must have a background related to structural/seismic engineering and demonstrated ability to perform complex structural calculations, to work independently with minimal direction from senior technical staff, to supervise and mentor junior technical staff, and to interact effectively with clients and project team members outside of the firm.
- Active participation in professional activities related to structural or earthquake engineering is a plus.

**Job Position:** Design Engineer

**Job Requirements:**
- Master’s Degree in Structural Engineering with 3+ years of professional experience related to structural/seismic engineering.
- California Civil Engineering license (PE) required.
- Demonstrated ability to perform detailed structural calculations, to work independently with limited direction from senior technical staff, to provide limited direction to junior technical staff, and to interact effectively with clients and project team members outside of the firm.
- Active participation in professional activities related to structural or earthquake engineering is a plus.

**Additional Information:**
Degenkolb offers very competitive salary along with:
- Company-sponsored plans in medical, dental, vision, and life insurance, as well as commuter benefits.
- Generous Paid Parental Leave program to support new parents.
- 401(k) and Profit Sharing.
- Opportunity to own shares in the company and have an impact on your future.
- Encouragement and financial support for professional development and professional activities.
- Truly flexible work environment.
- Paid company holidays and generous paid time off (PTO).

To learn more about the company culture and our approach to development, please visit our website using the links below:

https://degenkolb.com/culture/

https://degenkolb.com/career_path/

**How to Apply / Contact**
Please visit [https://degenkolb.com/job-openings/](https://degenkolb.com/job-openings/) to view current job openings and begin the application process.
**FTF Engineering**

**Job Position:** Structural Engineer - 0 - 7 years of Experience and Engineering Intern

**Job Description:** Looking for a career with a rapidly growing, entrepreneurial firm committed to engineering excellence and finding smart solutions to a client’s mission and business objectives?

FTF Engineering is a successful, rising structural and civil engineering firm with an upbeat, proactive, staff-oriented culture. Our clients include award-winning architects and respected organizations across California. We specialize in unique and challenging projects including high-end, single family houses and multifamily residential work, commercial and institutional projects, tenant improvements, seismic evaluation and retrofits and construction means-and- methods. Our offices are located in San Francisco and San Luis Obispo.

We are a multigenerational team that is much more culturally and gender-diverse than our peers. We respect one another and enjoy many activities together: cycling events with the A/E/C community, a variety of team-building activities and project tours. Giving back to the greater community — both collectively and individually — is also a priority for FTF, and we support one another and participate in ranging charity efforts.

Our team members are empowered to be leaders in our profession. FTF actively promotes the professional development of our staff by subsidizing licensing exams, memberships to professional organizations, seminars, classes, and other activities that further staff education in the field of structural engineering.

We are looking for Structural Engineers with 0-7 years of experience and Interns in either our San Francisco office or San Luis Obispo office.

FTF Engineering is a dynamic company for talented, forward-thinking engineers who take responsibility and thrive in a creative and collaborative team environment. Successful candidates are motivated to work directly with our clients, find creative solutions that respond to the needs of both the building and its owners, and contribute to advancing our profession.

Additionally, the ideal individual values a progressive culture that supports involvement in both professional activities and independent, outside works that better our greater community. In short, you should help make our company an exemplary place to work, learn and thrive.

**Job Requirements:**

- Design experience with wood, steel and concrete with a strong analytical background.
- Flexible in assigned tasks, works diligently to make deadlines, able to work independently; enthusiastic about working to take projects to the “next level”
- MS in Civil or Structural Engineering
- 0-7 years of experience
- PE License (preferred) or SE License (a plus)
- Proficient AutoCAD Drafting Skills (REVIT skills highly desirable but not necessary)
- Other Desired Computer Skills: REVIT, RISA-3D, SAP2000, ETABS, RAM Structural, Enercalc, Excel

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**Job Position:** REVIT Specialist/CAD Manager with 2+ years of experience

**Job Description:** We are looking for a Revit Specialist/CAD Manager with 2+ years of experience in our San Luis Obispo or San Francisco offices.

FTF Engineering is a successful, growing structural engineering firm with two offices in California, specializing in challenging projects in the commercial, industrial, public and residential sectors throughout the Central Coast and Bay Area.

Our office environment is open, communicative, team-oriented, fast-paced, high energy, flexible, and fun. We all work on multiple projects, and we strive to be an exceptional provider of engineering and innovation.

We are looking for a fulltime REVIT specialist to work out of our San Luis Obispo location and help continue to develop our in-house REVIT standards and processes while managing our CAD drafting staff.
Responsibilities:
• REVIT drafting/modeling – 50% to 80%
• AutoCAD drafting – 10% to 40%
• In office management of AutoCAD and REVIT work load – 10%
• Learn and apply office standards of design, quality control, and production
• Produce accurate work as a part of a project team
• Mentor less experienced staff from both offices in REVIT or AutoCAD
• Maintain and expand REVIT and CAD detail library

Job Requirements:
• Associates degree or certificate of completion in computer aided drafting program
• 2+ years of drafting/modeling experience with REVIT and AutoCAD software
• Experience creating and modifying Revit families
• Experience creating and editing PDF Files using Bluebeam
• Create clear and accurate drawings that conform to engineering and FTF Standards
• Excellent time management skills and multi-tasking capabilities
• Detail oriented and very organized
• Be extremely service oriented and highly approachable with commitment to helping others
• Have a positive & professional attitude and demeanor

Forell/Elsesser offers a competitive salary and excellent benefits package which includes medical, dental, vision, 401 (k) plan and profit sharing.

How to Apply/Contact
To apply for these positions, submit cover letter and resume to resumes@ftfengineering.com. Provide references and work samples upon request. No phone calls, please.

H.D. Rueb Structural Engineer
Job Position: Structural Engineer/Designer
Job Description: H.D. Rueb Structural Engineer is a consulting firm in Pleasant Hill, and we are looking to hire a full-time structural engineer/designer.

Our firm has provided structural engineering services for over 45 years, and we have extensive experience in a wide variety of buildings: schools, offices, commercial, medical, public/institutional, churches, retirement centers, apartment complexes, seismic retrofits and custom residential.

Job Requirements:
Minimum Qualifications:
• 3 years minimum experience in the field of structural engineering.
• CE license is required.
• SE license and MS degree are preferred.
• Experience in the design of wood, steel, concrete and masonry structures.
• Solid understanding of building codes and seismic provisions.
• Experience with DSA and/or OSHPD is preferred.

Minimum Required Skills:
• Self-motivated and able to work independently with minimal supervision.
• Excellent verbal and written communication skills.
• Multi-tasking to effectively work on several projects concurrently.
• Experience with structural analysis software: Enercalc and RISA are required, SAFE and ETABS are preferred.
• Basic proficiency with AutoCAD.
• Prepare accurate and complete structural calculations, plans and details.

We offer a competitive salary, 401k, health insurance allowance, flexible hours, paid vacation, sick leave and holidays.

How to Apply/Contact
Please send your cover letter and resume to staff@hdrse.com.
KPW Structural Engineers, Inc.

**Job Position:** Project Engineer

**Job Description:**
KPW Structural Engineers is a leading Bay Area structural engineering firm located in Oakland’s Jack London Square. KPW specializes in the Life Sciences, Tech, Civic, Education, Mixed-Use, and Healthcare market sectors. We are a group of 30+ vibrant and outgoing individuals, and we’re looking to add to our team. We offer a relaxing and engaging work environment, challenging projects, supportive mentorship, and emphasize work/life balance.

We are currently looking for well-rounded and collaborative structural engineers with 2-7 years of experience to join our team. The ideal candidate is someone who is looking to be challenged technically, able to manage all phases of a project, work independently and in groups, embrace technology and apply it to their work, and are enthusiastic about their professional growth.

**Job Requirements:**

- BS degree in Civil Engineering with completion of relevant coursework in Structural Engineering
- Registration as a Civil Engineer in the State of California
- Experience with Steel, Concrete, and Wood-framed design

**Desired:**

- MS degree in Civil Engineering with an emphasis in Structural Engineering
- Three years of engineering experience in the structural engineering field
- Experience with Building Information Modeling

**Essential Functions:**

- Responsible for the production of engineering documents such as reports, calculations, and drawings that are complete and technically accurate
- Supervises and mentors Staff Engineers and CAD staff
- Responsible for handling interactions with the client regarding technical design issues, coordination of document preparation, and submittal schedules
- Responsible for tracking KPW project costs, meeting contractual obligations within the stated terms with an emphasis on efficiency

**How to Apply / Contact**

To apply please visit https://www.kpwse.com/careers. We look forward to learning more about you.

Mar Structural Design

**Job Position:** Structural Engineer

**Job Description:** Do you have a passion for creative design? If you are inspired to grow in an exciting and collaborative environment, please email us a thoughtful note telling us about yourself. Mar Structural Design is looking for skilled and enthusiastic engineers. We are a mission-driven firm on the forefront of performance-based seismic design and sustainable design. Excellent engineering skills are expected along with a commitment to continual learning.

**Job Requirements:**

Our ideal candidate has at least four years of design office experience, a Master’s degree in structural engineering, and is licensed in California. They enjoy working collaboratively, thrive on reciprocal learning, and demonstrate a knack for seeing the “whole project.” Architectural training, experience designing in several structural materials, the ability to create thoughtful design details, and an interest in high-performance seismic and sustainable design are all considered pluses. This is an opportunity to shape both your career and our robust growing firm. Mar Structural Design is an Equal Opportunity Employer, and offers a competitive salary with comprehensive benefits.

**How to Apply / Contact**

Send your resume and cover letter to Taline Mitten at hr@marstructuraldesign.com

Rutherford + Chekene

**Job Position:** Entry-Level Designer (Building Systems Group)

**Job Description:** At R+C, we are a passionate group of individuals who are excited to tackle project challenges head-on. Our driving motivation is to develop innovative, tailored solutions that stand the test of time and keep people safe. Since 1960, we have worked on many of California’s iconic structures like the Ferry Building, de Young Museum and Monterey Bay
Aquarium, and we are active participants in code and guideline development.

Rutherford + Chekene is looking for an entry-level structural designer with 0-2 years of experience to join our Building Systems Group. As a new hire, you will be working on Tenant Improvement and seismic anchorage of equipment and seismic bracing of MEP distribution systems for high-profile tech companies, hospitals, labs and universities.

**Job Requirements:**
- A Bachelor’s degree in Civil Engineering, Master’s Degree preferred
- Familiarity with California Building Code and ASCE7 with emphasis on nonstructural component design requirement
- Familiarity with Mathcad, AutoCAD, Revit, RAM, Risa, or related software
- Ability to perform complex calculations and strong analytical skills
- Excellent writing and verbal communication and interpersonal skills
- Self-motivated, enthusiastic, and able to work in a team environment

**How to Apply / Contact:**
Please submit a cover letter and resume to recruiting@ruthchek.com for immediate consideration. Include your name and “Building Systems Engineer – Entry Level” in the subject line.

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**Job Position:** Senior Project Engineer (Building Systems Group)

**Job Description:** R+C is actively seeking a Senior Project Engineer (Building Systems Group) with 7-10 years of experience who will join our Building Systems Group (BSG) to manage a wide range of tenant improvement projects. Our clients include high-profile tech companies, labs, hospitals, and universities, and our diverse portfolio includes challenging and engaging projects from building remodels to complex structural alterations.

**Job Requirements:**
- Master’s Degree in Structural Engineering with 7 to 10 years of professional engineering experience
- Licensed California Civil Engineer (PE) is required, registration as a Structural Engineer (SE) is highly desired
- Must have technical knowledge and experience to perform complex Tenant Improvement projects, able to manage and interact effectively with clients and project teams, able to lead and mentor junior structural designers
- Design of supports and attachment for architectural features and components
- Seismic anchorage and bracing of equipment and MEP distribution systems
- Excellent writing and verbal communication, and interpersonal skills
- Familiarity with RAM, RISA, ETABS, SAP2000, Revit structure
- Prior project experience with OSHPD and DSA is desirable

**How to Apply / Contact**
Please submit a cover letter and resume to recruiting@ruthchek.com for immediate consideration. Include your name and “Senior Project Engineer (Building Systems Group)” in the subject line.

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**SOHA Engineers**

**Job Position:** Senior Structural Engineer

**Job Description:** SOHA Engineers is accepting applications for a Senior Structural Engineer/Project Manager and Project Engineer to join our team in San Francisco. If you are ready to embark on an exciting and rewarding career in Structural Engineering, we would love to have you in our team!

Founded in 1965, SOHA Engineers is one of the leading structural engineering firms in California with an exceptional culture of creativity, collaboration, innovation, mentorship with strong commitment to our employees, to our clients, and to our community. For over five decades we have been driven by our holistic approach and passion for great structural engineering as an integral part of the overall project goals. We pride ourselves in creating a comfortable, dynamic and thriving work environment, collaborating with some of the most wonderful and brightest colleagues and friends, and working on some of the most challenging and interesting projects in the SF bay Area. SOHA provides a full spectrum of services, including seismic design of new buildings and structures, seismic evaluation and rehabilitation of existing buildings and bridges, historical renovations, shoring and underpinning design, and peer reviews. We have engineered and rehabilitated some of the most significant buildings and structures in California, many of which have been recognized and awarded.
Candidates for the Senior Structural Engineer/Project Manager position should have experience in design of most types of buildings and structures including office buildings, cultural and institutional buildings, high density residential buildings, research facilities, seismic rehabilitation of buildings and tenant improvement projects utilizing all types of construction materials including concrete, steel, masonry and wood (basic fundamentals of wood design as a minimum).

**Responsibilities**
- Assist in the direction, planning, organization, control, coordination, and completion of projects
- Organize and plan for project staffing according to project requirements
- Effectively communicate with clients to understand project requirements and to provide advice
- Perform analysis and design for all types of buildings and materials using various building codes
- Manage other design team members and supervise the work of engineers and draft persons
- Quality control and preparation of contract documents
- Understand and track financial information related to the project

**Job Requirements:**
- 7 + years of experience designing various structural engineering projects
- Master’s degree in structural engineering is preferred; undergraduate degree is required
- Professional Civil Engineer license; Structural Engineer license is preferred
- Experience with software: MS Word, Excel, PowerPoint, ETABS, SAP, Risa, Revit (preferred)
- Fluency in English
- Ability to communicate technical concepts in an articulate and accessible manner

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**Job Position:** Project Engineer

**Job Description:** Candidates for the Project Engineer position should have experience in structural/seismic design of buildings and structures.

**Responsibilities**
- Perform structural analysis and design of building structures
- Prepare construction documents including structural detailing and coordination with other disciplines
- Provide construction administration services
- Attend meetings and site visits

**Job Requirements:**
- 2 + years experience in structural/seismic design of buildings and structures
- Professional Civil Engineer license or Structural Engineer license
- Experience with software: MS Word, Excel, PowerPoint, ETABS, SAP, Risa, Revit (preferred)
- Able to work fairly independently
- Team player with interest in working in a collaborative and technically challenging environment

Your future is defined only by your imagination, passion and your ambition. We foster a culture that embraces growth and creativity and rewards strong work ethics and commitment to the craft of structural engineering for the benefit of our community and our clients. Check us out at [www.soha.com](http://www.soha.com).

**How to Apply / Contact**
Please send cover letter and resume to [employment@soha.com](mailto:employment@soha.com).

**Strandberg Engineering**

**Job Position:** Structural Engineer

**Job Description:** We are currently seeking Project Engineers and Staff Engineers. Strandberg Engineering is a lively structural engineering firm located in San Francisco. We have a love for beautiful architecture and great design, and want our work (whether visible or not) to have the same standards. Our work includes the design, analysis, and preparation of construction documents for residential, commercial, and mixed-use buildings. We work with a diverse set of architects, contractors, and building professionals from design through construction.

Learn more: [www.strandbergeng.com](http://www.strandbergeng.com)
Staff Engineer
Project technical support with close supervision (including structural design and analysis, computer modeling, calculations, drafting, drawings coordination, construction administration or field support).

Project Engineer
Licensed Professional Civil or Structural Engineer in California. Project design and coordination with some autonomy. Structural design and analysis, drawing development, construction administration or field support, close interaction with the design and construction teams.

Desired Qualifications:
• Knowledge of mechanics of materials, timber, reinforced concrete, and steel design
• Experience in AutoCAD, RISA, and Revit
• Experience in SAFE, ETABS, and Enercalc

Benefits:
• Competitive salary
• Paid holidays and Paid Time Off
• Matching 401k and Profit Sharing
• Health Insurance
• Wellness program (reimbursement for wellness expenses)
• Semi-flexible hours
• Year-end bonus
• Paid Professional Development (including professional dues and professional licensing exams)

How to Apply / Contact
Please email a cover letter and resume to: hiring@strandbergeng.com

Tipping Structural Engineers
Job Position: Structural Engineer
Job Description:
We are seeking two levels of candidates -- with 1 to 3 years and with 3 to 7 years of professional experience -- to join our team.

Our ideal candidate: you have a master’s in structural engineering and a professional engineer’s license in the State of California, an interest in high-performance seismic and sustainable design, and a knack for “whole-project” seeing. In addition:

• You thrive on collaborating and communicating with others to expand possibilities and create positive contributions.
• You actively seek to grow your interpersonal skills and social intelligence.
• You are adaptable and willing to equally consider the diverse opinions and solutions of others.
• You strive toward excellence and continually innovate for learning and improvement.
• You are self-challenging, evaluating your assumptions with powerful questions and redefining problems.
• You are passionate about contributing to and supporting the long-term vision of the organization you belong to.

You have demonstrable engineering expertise evidenced by:

• a good understanding of the dynamic behavior of structures, including nonlinear behavior;
• an ability to solve engineering problems independently and catch errors before they impact a project;
• proven ability to take independent, responsible charge of increasing proportions of a project;
• an ability to draw, sketch, and detail in ways that convey your design intention and leave little room for misinterpretations by the builder;
• your calculations or analytic reports and presentations employ visual elements to convey the significant aspects of your findings, considering the audience for which they are prepared;
• a facility with AutoCAD, Revit, PERFORM-3D, RAM Structural System, RAM Concept, and RISA;
• an awareness of project budgets and the ability to judiciously tailor work to meet them;
• a good understanding of current standards of practice, including ASCE 7, ASCE 41, CBC, ACI, AISC, NDS; and
• a mastery of statics.

How to Apply / Contact
If you possess the foregoing qualities, credentials, expertise, and experience, please email to resumes@tippingstructural.com a cover letter illustrating how you might contribute to and thrive at Tipping Structural Engineers, as well as your résumé.

Walter P Moore
Job Position: Structural Engineers Wanted
Job Description: Walter P Moore has Project Engineer and Sr. Engineer openings in our San Francisco, Los Angeles, and San Diego offices. Our structural engineering team is driven by the challenge of designing large and complex building structures. These include sports, high-rise, education, aviation, hospitality, commercial, and government facilities.

Job Requirements:
Engineer:
• Master’s in Civil Engineering with emphasis in Structures
• 3-7 years of experience in structural design. Majority of experience in California a plus.
• California PE required, or ability to obtain licensure within 6 months.
• Understanding of dynamic behavior of structures and application of seismic building codes, including Performance Based Design
• Demonstrated career growth that includes project management experience preferred
• DSA or OSHPD experience a plus

How to Apply / Contact
Apply online at https://www.walterpmoore.com/career-opportunities.